Joint Digital Library System

New Technology Using XML

Distribution - Resources - Repository

Interoperability in a Joint Virtual Environment

Information Briefing

JW950 Joint Digital Library System

Joint Warfighting Center (JWFC)

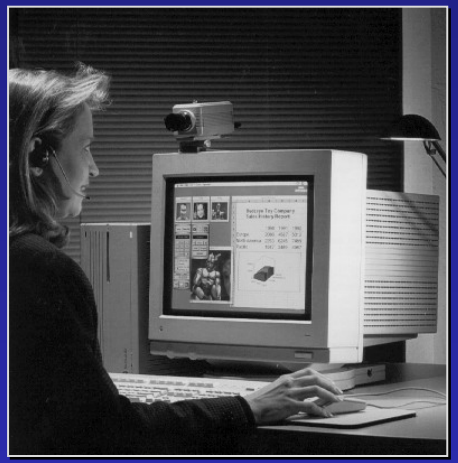
JDL Technology Directions

Systems Center San Diego

Global, just-in-time knowledge sources and services

Analytic Tools
Intelligent Training
Collaborative Learning

Performance Support



User, task, and situation tailored interaction

Human Computer Interaction

Collaborative Filtering
Information Brokers
Knowledge Integration

Knowledge Management

Multimedia
Multilingual
Multidocument

Digital Libraries

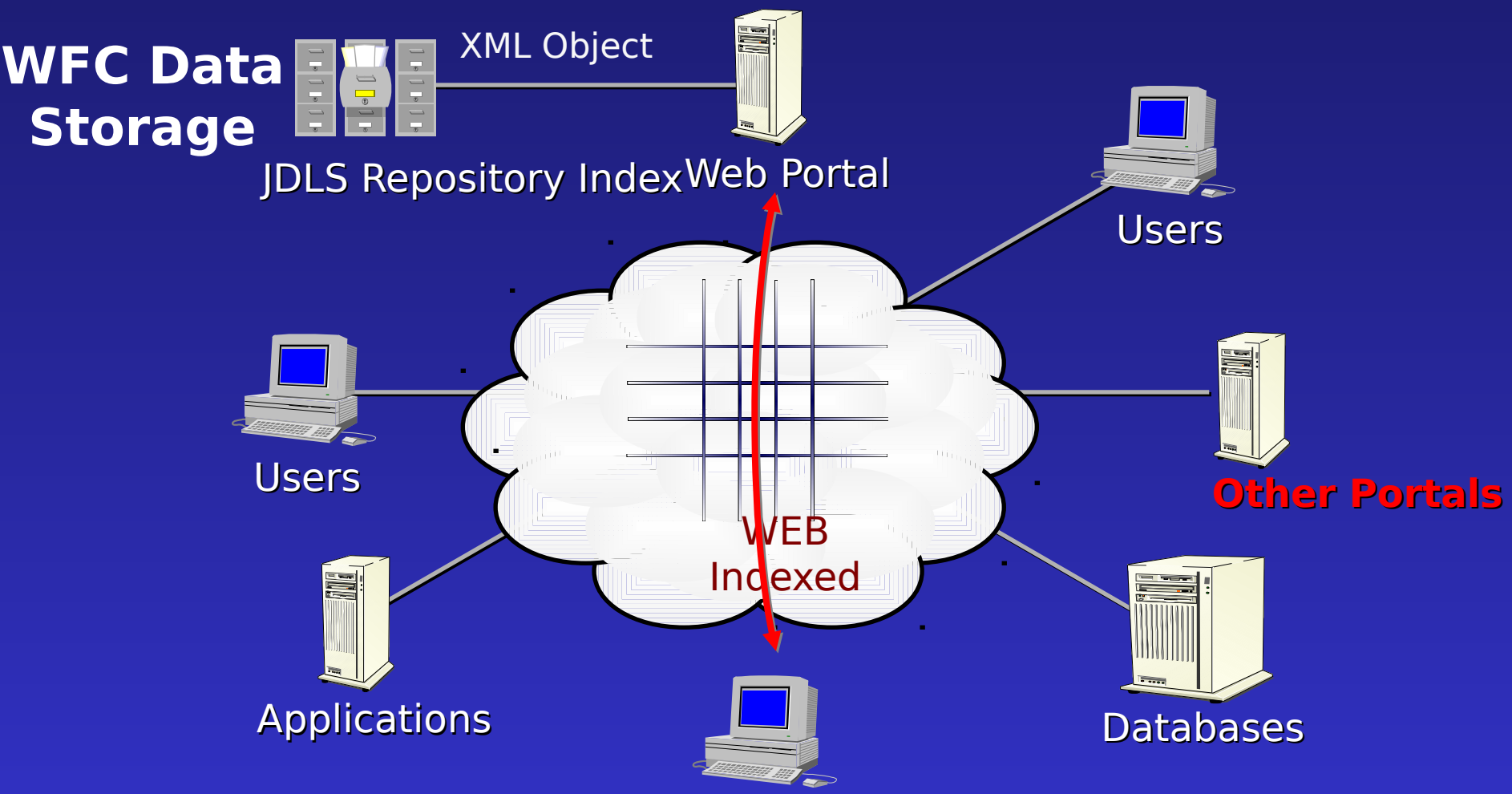
Seamless collaboration across geographic, temporal, organizational, and mission boundaries

Collaborative Environments

Intelligent agents to monitor, filter, search, extract, translate, fuse, mine, visualize, and summarize information for a variety of operational needs

Intelligent Agents

JDL Open Architecture Concept



Object Architecture Supports Portals with Content

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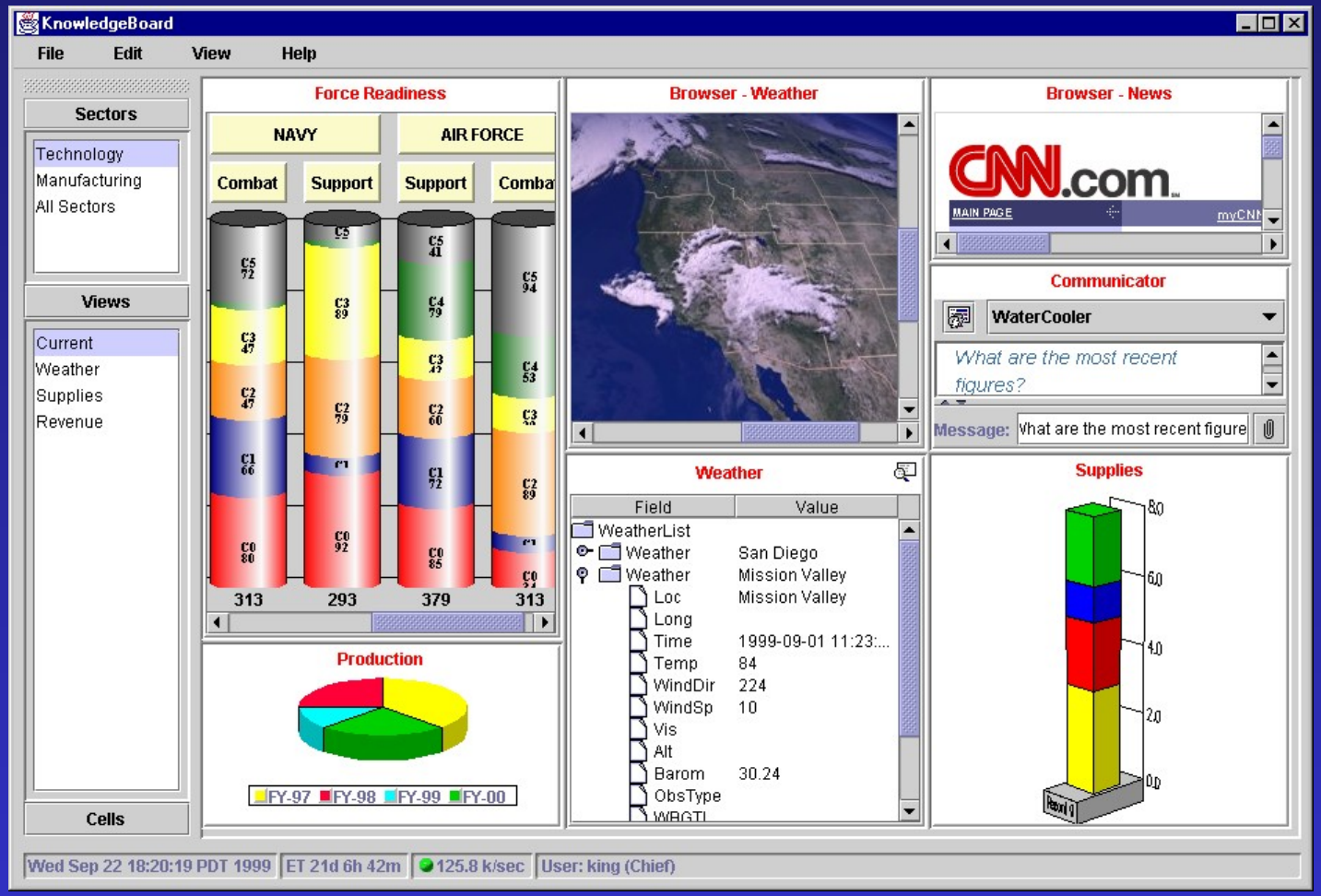

JDL Architecture Diagram

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FRONT Office

Portals

MyLivelink

ROBOT

WEB INTRANE

Desktop

SITE MINDER

Authentication

Services Laye

WEB INTERFACE

JTIMS

DMS(LL)

JEL/ JCLL

JEMIS

JIDPS

ARCINFO

JDLC

Application Layers

ORACLE

BACK Office

Web Farm Servers

Physical Access Layer

Multiple ORACLE DB Instances

File Storage System

DMS Metadata

FY01 New JDL Features

Single Login/Web Farm Architecture

XML Robot Access to JDLS

Seamless Desktop to Storage Tools –

CMD Calendar, Global Address Book, Plan of the Day

Expanded Cataloging of Information

Real-time Video Streaming

Sentinal Event News Alerts, MediaSite Video Indexing Tools

Portals/Knowledge Wall/MyLivelink

Time Lines For JDL FY 01-2/3 Implementation

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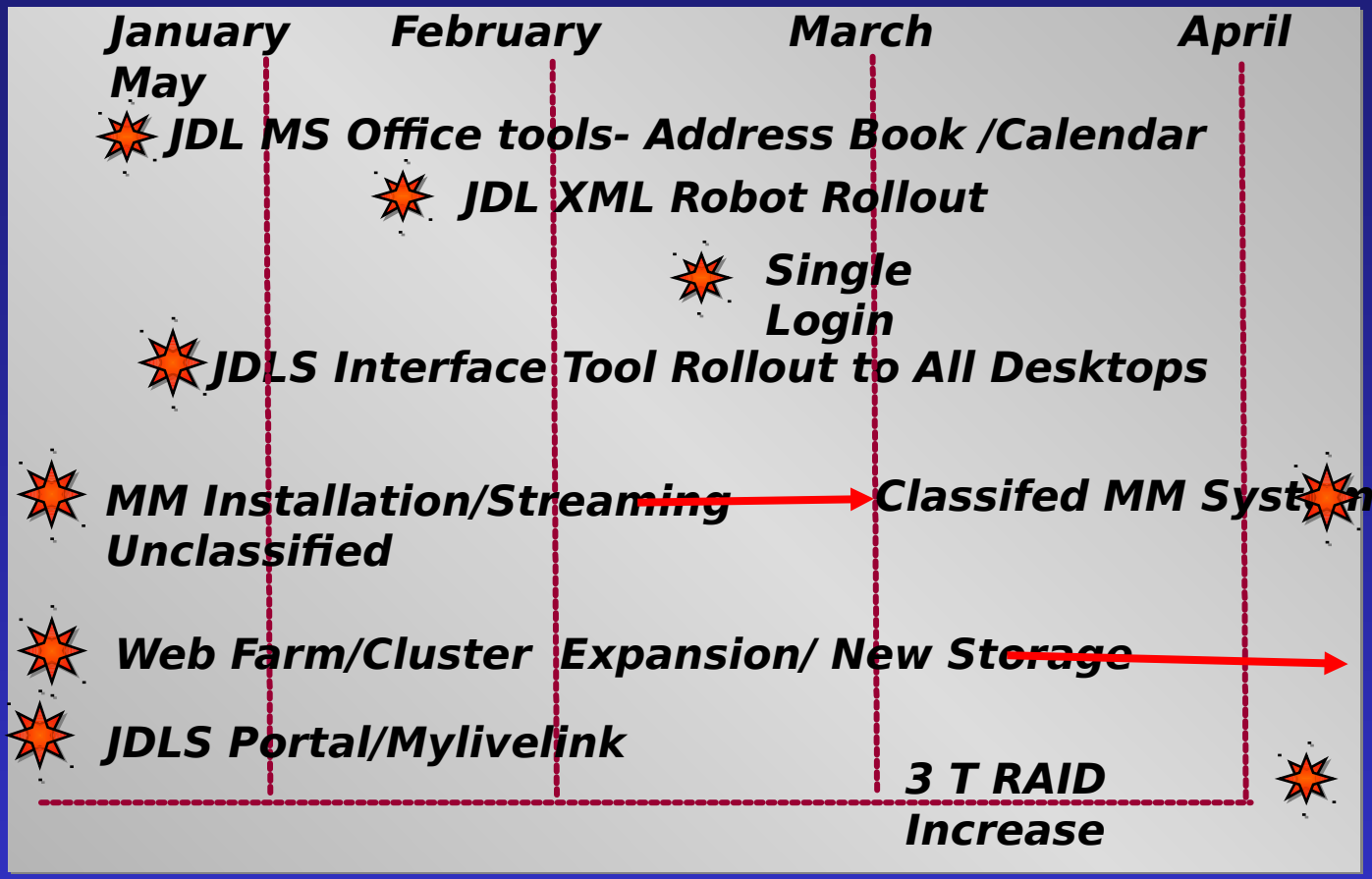
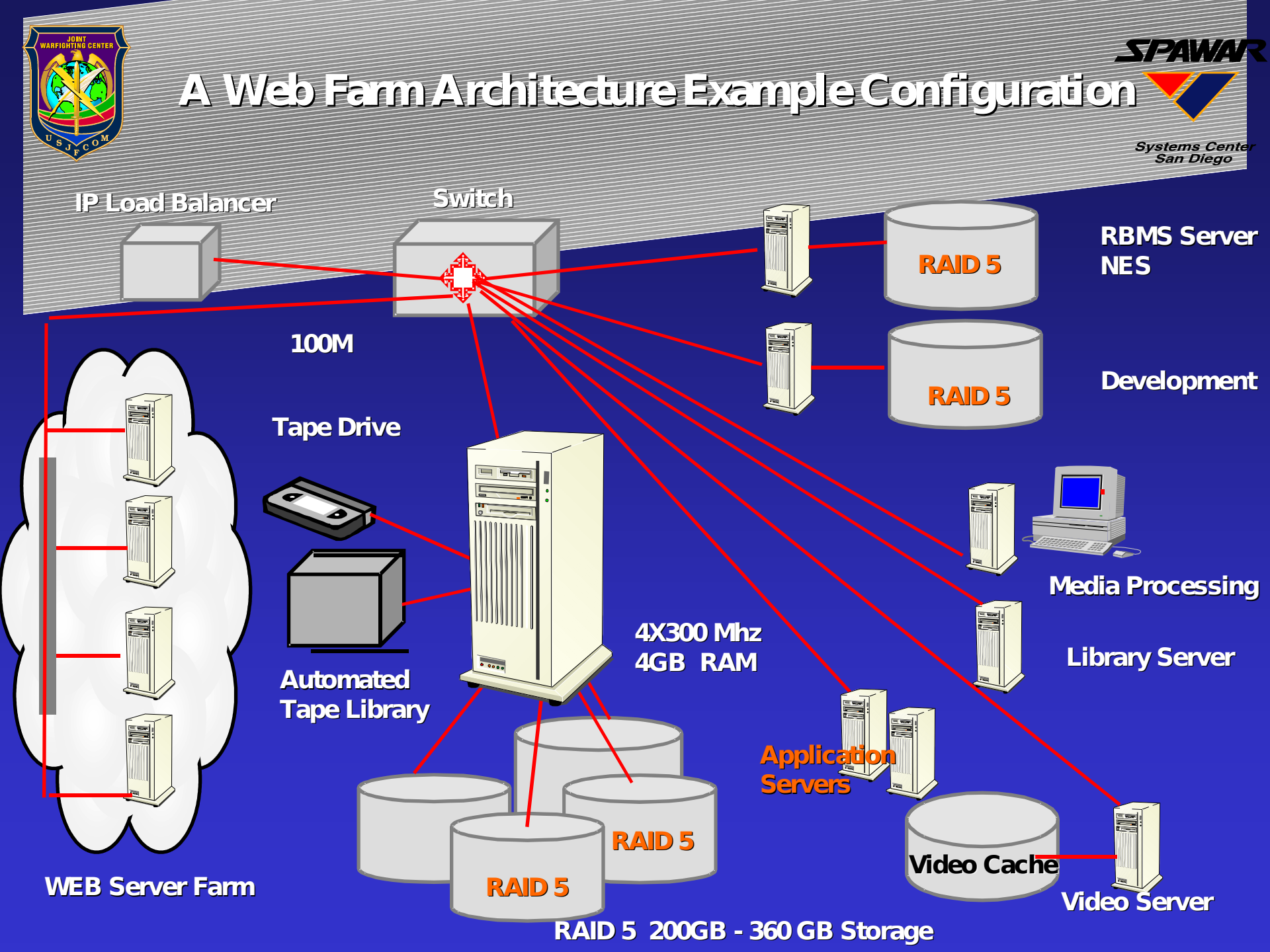
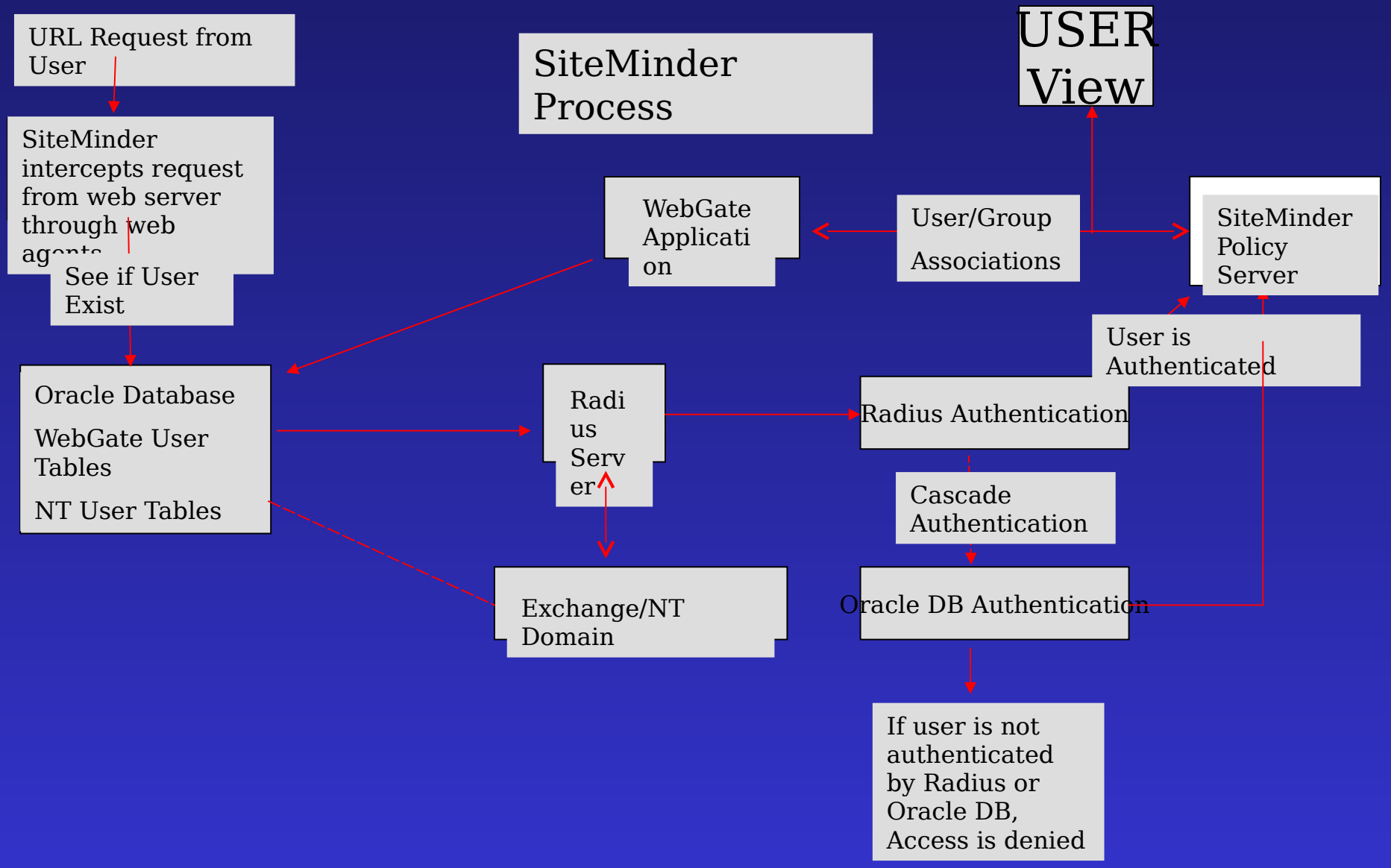
JDL Stair Step
Build Test Build



A Web Farm Architecture Example Configuration



Single Sign On for all JWFC Applications



JDL XML Robot Process

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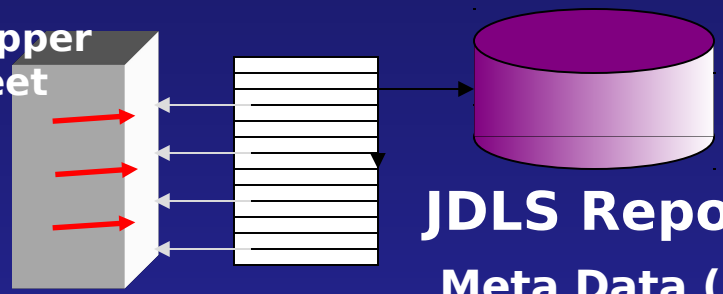
Dynamic Wrapper
XML Style Sheet



JDLS Repository

Meta Data (IMS/IEEE) -
All OBJ as URI or URLs

<?xml version="1.0"?>
<rdf:RDF

xmlns:rdf="http://www.w
3.org/1999/02/22-rdf-
syntax- <?xml
version="1.0"?>
<rdf:RD
F
xmlns:rdf="http://www.w
3.org/1999/02/22-rdf-
syntax- ns#"-rdf-

XML Index/Catalog

Security
Layer

XML

Process receives request
from External Host

Process Dynamically
Generates Object from
Repository Meta Data and Content

Web
Browser

Process Returns Object to Request

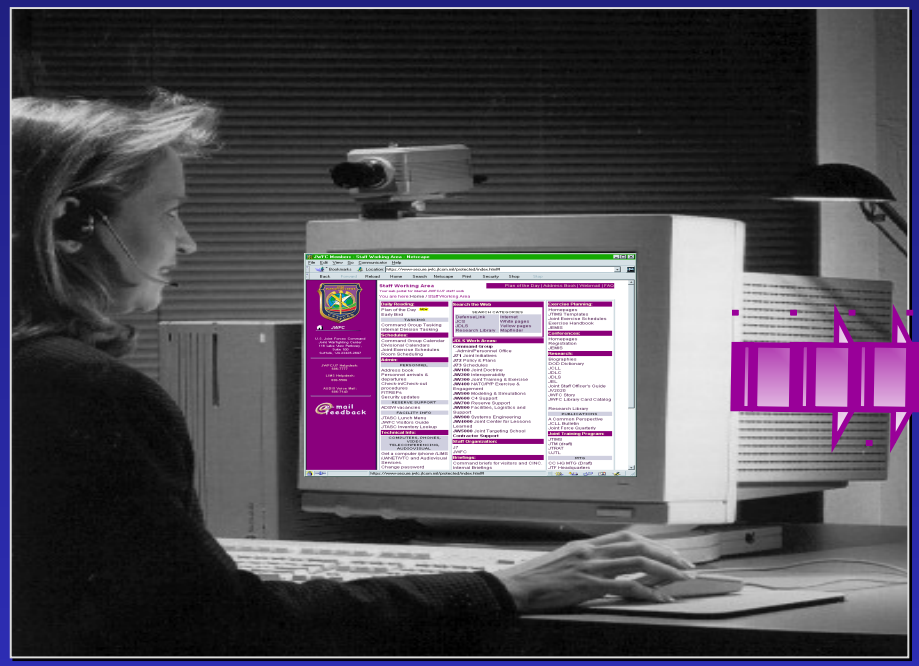
Computer
Or Web
Device
Or
Application

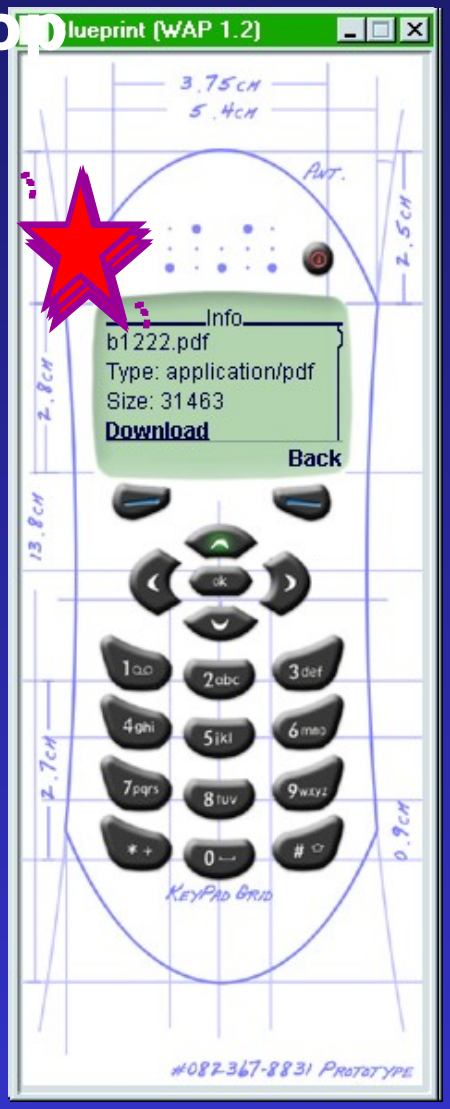
JW900 System Engineering Design

Joint Digital Library Research:Wireless Capability

SPAWAR Systems Center San Diego

pporting the Future Migration of Deskto Information To Wireless Devices





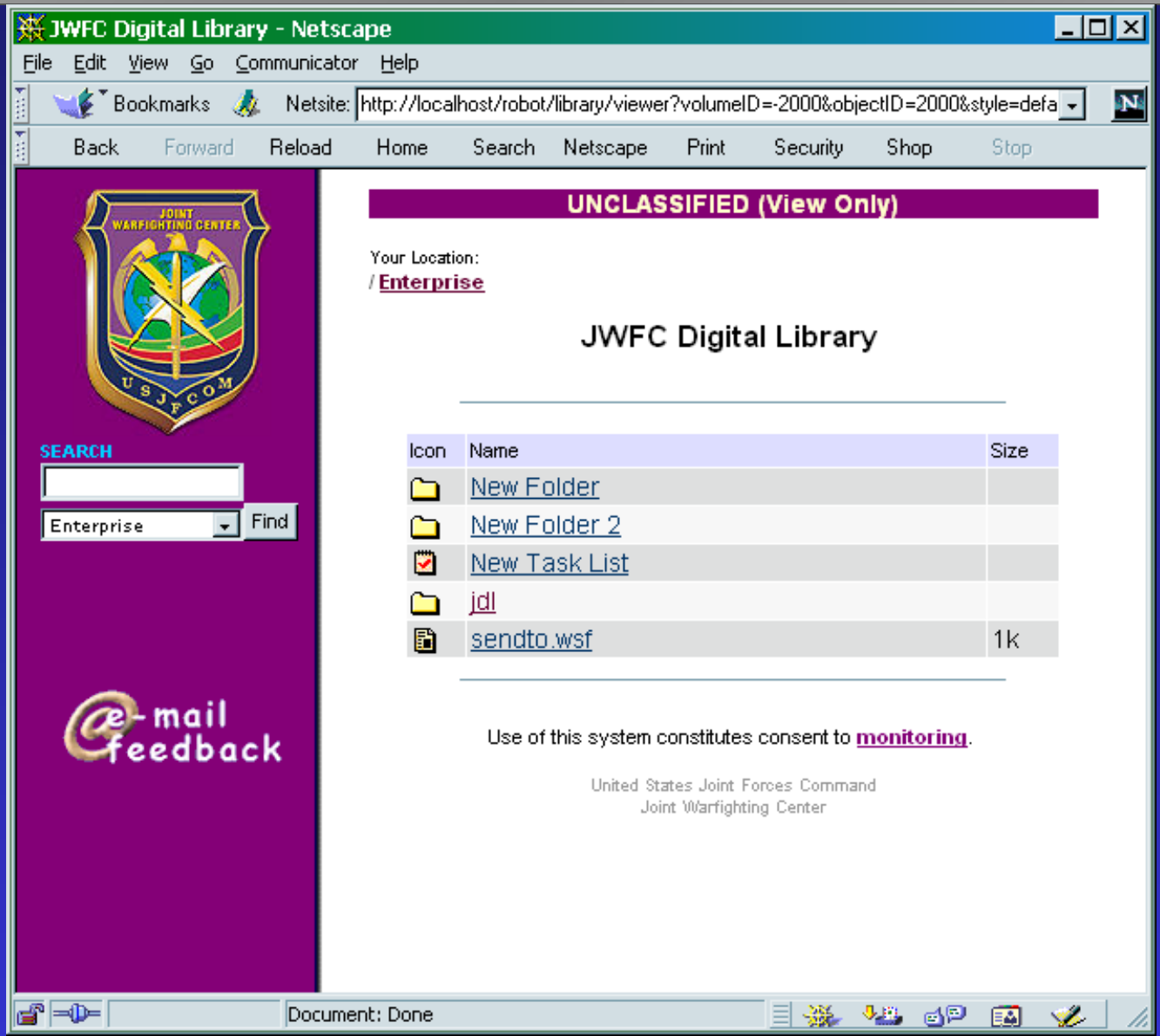
JDLS Objects Are Delivered From Web to Handheld Via A Robot

Live Demonstration:

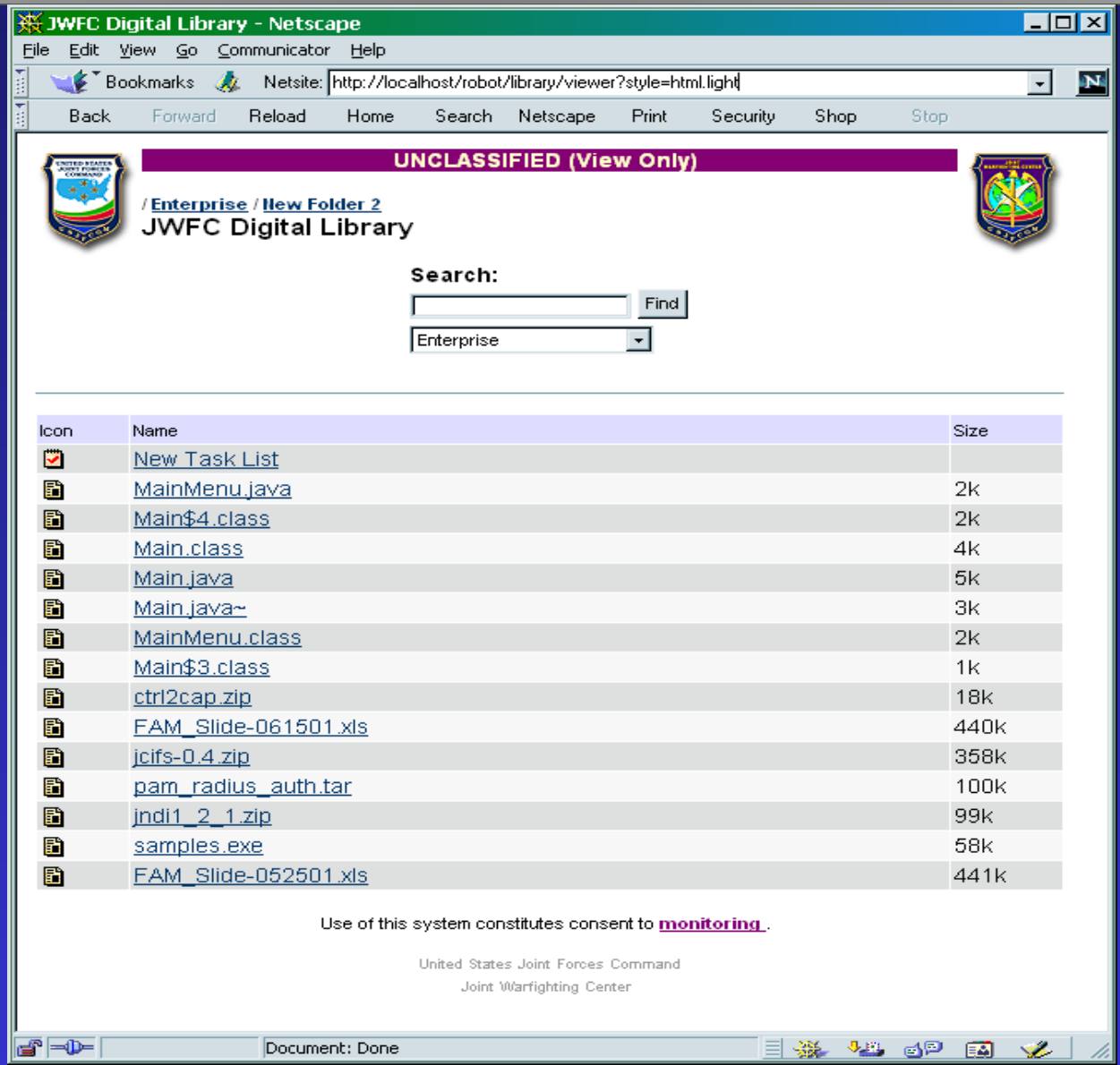
SPAWAR
Systems Center
San Diego

Web Robot Accessing JDLS, creating and displaying XML objects

XML JDLS Robot View Only Access



XML JDLS Robot View Only



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